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758 7590 12/23/2010 FENWICK & WEST LLP SILICON VALLEY CENTER 801 CALIFORNIA STREET MOUNTAIN VIEW, CA 94041				
EXAMINER LIU, BEN H				
ART UNIT 2464		PAPER NUMBER		
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOC@Fenwick.com

# Office Action Summary

## Application No.

10/800,473

## Applicant(s)

RAE ET AL.

## Examiner

BEN H. LIU

## Art Unit

2464

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 10 December 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-14, 16, 19, 21, 22, 24, 30-32, 34, 36 and 38-46 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.

- 6) ☒ Claim(s) 1-14, 16, 19, 21, 22, 24, 30-32, 34, 36 and 38-46 is/are rejected.

- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.

- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### **Summary**

1. This is in response to an amendment/response filed on December 10<sup>th</sup>, 2010.
2. Claims 1, 21, 34, and 44-46 have been amended.
3. No claims have been presently cancelled.
4. No claims have been presently added.
5. Claims 1-14, 16, 19, 21, 22, 24, 30-32, 34, 36, 38-46 are currently pending.

### **Claim Rejections - 35 USC § 103**

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claims 1-14, 16, 19, 21, 22, 24, 30-32, 34, 36, 38-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuller et al. (U.S. Patent 7,203,186) in view of Mussman et al. (U.S. Patent 7,075,922) and Gainsboro (U.S. Patent 5,655,013).

**For claim 1**, Fuller et al. disclose a call processing system for processing calls associated with a facility, comprising:

a first processor-based system coupled to a plurality of telephone terminals disposed within the facility, (see column 5 lines 4-56 and figure 1, which recite a processor-based system comprising computer 17, modem 22, and Call Forwarding Manager 24 coupled to a plurality of telephone terminals 18 in facility 16),

the first processor-based system transmitting first voice signals associated with one or more of the plurality of telephone terminals (see column 5 lines 4-21 and figure 1, which recite processor-based system 17, 22, 24 that transmits voice signals associated with IP telephones 18 via Ethernet digital data link 20); and

a second processor-based system communicating with the first processor-based system via a digital data link and disposed remotely from the first processor-based system, the second processor-based system establishing calls to called parties requested by the one or more of the plurality of telephone terminals (see column 10 lines 24-35 and figure 1, which recite a voice gateway 44 remotely coupled to processor-based system 17, 22, 24 to establish calls to called parties requested by IP telephones 18),

the second processor-based system converting the first voice signals for transmission over a carrier network responsive to receiving the first voice signals via the digital data link, the second processor-based system converting second non-VoIP (Voice over Internet Protocol) voice signals from the called parties received via the carrier network to second VoIP voice signals for transmission to the first processor-based system via the digital data link (see column 2 lines 7-15 and column 10 lines 24-35, which recite a voice gateway 44 that converts between VoIP H.323 signals received from IP telephones 18 and non-VoIP signals received from called parties in PTSN carrier network 12).

Fuller et al. disclose the subject matter of the claimed invention with the exception wherein the first processor-based system comprises a first unauthorized call activity detector for monitoring fraudulent or unauthorized call activity associated with the calls and wherein the second processor-based system comprises a second unauthorized call detector for monitoring the second non-VoIP voice signals to detect the fraudulent or unauthorized call activity in the calls. However, Mussman et al. from the same or similar fields of endeavor disclose a method and apparatus for screening unauthorized calls (see column 1 lines 37-46). Unauthorized calls may be screened between in a PSTN switched network 1030 and a packet network 1040 (see column

2 lines 31-60 and figures 1-2). Specifically, non-VoIP calls from a PSTN network are screened by an inbound gateway 5020 and gatekeeper 5030 while VoIP calls to the H.323 network are screened by outbound gateway 5070 and gatekeeper 5060 (see figure 5). Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for screening unauthorized calls between a PSTN network and a VoIP network as taught by Mussman et al. with the combined analog and VoIP telephony call processing system as taught by Fuller et al. The method and apparatus for screening unauthorized calls can be implemented by using the gatekeepers that monitor calls between a PSTN network and a VoIP network as taught by Mussman et al. in the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. The motivation for using the method and apparatus for screening unauthorized calls between a PSTN network and a VoIP network as taught by Mussman et al. with the a call processing system as taught by Fuller et al. is to improve the security of the network by providing an access control mechanism for allowing or rejecting calls in the network.

Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception that the facility coupled to a plurality of telephone terminals specifically comprises one ore more prison facilities. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the network that facilitates and screens combined digital VoIP and analog POTS calls as taught by Fuller at al. and Mussman et al. The

method and apparatus for managing telephone activity in prison facilities can be implemented by using the network that screens unauthorized calls as taught by Fuller et al. and Mussman et al. in prison facilities as suggested by Gainsboro. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the network that facilitates and screens combined digital VoIP and analog POTS calls as taught by Fuller et al. and Mussman et al. is to improve security in a prison system by allowing or rejecting calls made through the prison telephony network.

**For claim 2**, Fuller et al. a call processing system wherein the first voice signals and the second VoIP voice signals are transmitted between the first processor-based system and the second processor-based system via voice over Internet protocol data (see column 10 lines 24-31).

**For claim 3**, Fuller et al. a call processing system wherein the first processor-based system switches the calls based on control by the second processor-based system (see column 10 lines 28-31, which recite a voice gateway 44 that controls which protocol is used to switch the call).

**For claim 4**, Fuller et al. a call processing system wherein the second processor-based system performs call routing for the calls (see column 10 lines 24-31, which recite the voice gateway 44 that routes calls to the destination telephone).

**For claim 5**, Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the second processor-based system verifies personal identification number (PIN) of a caller placing a call by one of the plurality of telephone terminals. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15).

Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU further validates a call by verifying the PIN of a caller (see column 1 lines 48-49 and column 6 lines 8-9).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the management and security in telephone communications of prison facilities by providing information for access control.

**For claim 6**, Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the second processor-based system processes billing associated with placing a call using the plurality of telephone terminals. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU processes billing information associated with the call (see column 6 lines 9-20).



Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the management and security in telephone communications of prison facilities by providing information for access control.

**For claim 7**, Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the second processor-based system comprises a call processing platform providing at least one of billing, validation and routing associated with the calls made via the first processor-based system. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU processes billing information associated with the call (see column 6 lines 9-20).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and

VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the management and security in telephone communications of prison facilities by providing information for access control.

**For claim 8,** Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the call processing platform provides at least one of billing, validation and routing associated with calls made via a third processor-based system disposed at another prison facility. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU monitors fraudulent or unauthorized call activity such as three-way calling (see column 4 lines 34-41). The TMU further validates a call by verifying the PIN of a caller (see column 1 lines 48-49 and column 6 lines 8-9), determines whether a call is accepted by a called party (see column 3 lines 39-52), and processes billing information associated with the call (see column 6 lines 9-20).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and

VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the management and security in telephone communications of prison facilities by providing information for access control.

**For claim 9**, Fuller et al. a call processing system wherein the first processor-based system comprises a voice over Internet protocol gateway coupled between the plurality of telephone terminals and the digital data link (see column 5 lines 4-56 and figure 1, which recite a processor-based system comprising computer 17, modem 22, and Call Forwarding Manager 24 for processing H.323 VoIP traffic between a plurality of telephone terminals 18 and digital DSL link 34).

**For claim 10**, Fuller et al. a call processing system wherein the second processor-based system comprises a network edge device coupled to the digital data link (see figure 1, voice gateway 44 coupled to digital link 34 via DSLAM 40).

**For claim 11**, Fuller et al. a call processing system wherein the network edge device comprises a gateway between the digital data network and the carrier network (see figure 1, voice gateway 44 coupled between a digital link 34 via DSLAM 40 and carrier network PTSN 12).

**For claim 12,** Fuller et al. a call processing system wherein the carrier network comprises a public switched telephone network (see figure 1, voice gateway 44 and carrier network PTSN 12).

**For claim 13,** Fuller et al. a call processing system wherein the network edge device comprises a voice over Internet protocol gateway (see figure 1, which recite a voice gateway 44 that processes H.323 VoIP data).

**For claim 14,** Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the fraudulent or unauthorized call activity comprises a three-way call. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU monitors fraudulent or unauthorized call activity such as three-way calling (see column 4 lines 34-41). Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the

management and security in telephone communications of prison facilities by providing information for access control.

**For claim 16**, Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the second processor- based system provides performs speech recognition on the calls placed by the plurality of telephone terminals. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU monitors fraudulent or unauthorized call activity using speech recognition (see column 5 lines 17-29), call recording (see column 4 lines 31-32), and billing processing (see column 6 lines 9-20). If unauthorized activity is detected, the call may be discontinued (see column 6 lines 36-40).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the

management and security in telephone communications of prison facilities by providing information for access control.

**For claim 19**, Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the second processor-based system performs call monitoring and call recording on the calls placed by the plurality of telephone terminals. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU monitors fraudulent or unauthorized call activity using speech recognition (see column 5 lines 17-29), call recording (see column 4 lines 31-32), and billing processing (see column 6 lines 9-20). If unauthorized activity is detected, the call may be discontinued (see column 6 lines 36-40).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the

management and security in telephone communications of prison facilities by providing information for access control.

**For claim 21**, Fuller et al. disclose a facility call processing system comprising:

a call processing system communicating with a plurality of processor-based systems via digital data links, each processor-based system associated with a facility, the call processor system located remotely from at least one of the facility, the call processing platform being coupled to a carrier network for establishing calls from a plurality of telephone terminals in the facility (see column 10 lines 24-35 and figure 1, which recite a voice gateway 44 coupled to carrier network 12 to establish calls to called parties requested by IP telephones 18 at facility 16),

the call processing platform receiving first voice signals from the facility via the digital data links and sending the first voice signals over a carrier network to called parties, the call processing platform receiving second non-VoIP (Voice over Internet Protocol) voice signals from the called parties via the carrier network and converting the second non-VoIP voice signals to second VoIP voice signals for transmission over the digital data links to the facility (see column 2 lines 7-15 and column 10 lines 24-35, which recite a voice gateway 44 that converts between VoIP H.323 signals received from IP telephones 18 and non-VoIP signals received from called parties in PTSN carrier network 12), and

a plurality of call processing gateways, each call processing gateway associated with a facility to process the second VoIP voice signals for transmission to a plurality of telephone terminals in the facility, and wherein the call processing gateways generate the first voice signals responsive to receiving call signals from the plurality of telephone terminals (see column 5 lines

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4-56 and figure 1, which recite a processor-based system comprising computer 17, modem 22, Call Forwarding Manager 24, and voice gateway 44 associated with a plurality of telephone terminals 18 in facility 16 to transmit and receive voice signal).

Fuller et al. disclose the subject matter of the claimed invention with the exception wherein the plurality of call processing gateways detect the fraudulent or unauthorized call activity in the calls. However, Mussman et al. from the same or similar fields of endeavor disclose a method and apparatus for screening unauthorized calls (see column 1 lines 37-46). Unauthorized calls may be screened between in a PSTN switched network 1030 and a packet network 1040 (see column 2 lines 31-60 and figures 1-2). Specifically, non-VoIP calls from a PSTN network are screened by an inbound gateway 5020 and gatekeeper 5030 while VoIP calls to the H.323 network are screened by outbound gateway 5070 and gatekeeper 5060 (see figure 5). Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for screening unauthorized calls between a PSTN network and a VoIP network as taught by Mussman et al. with the combined analog and VoIP telephony call processing system as taught by Fuller et al. The method and apparatus for screening unauthorized calls can be implemented by using the gatekeepers that monitor calls between a PSTN network and a VoIP network as taught by Mussman et al. in the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. The motivation for using the method and apparatus for screening unauthorized calls between a PSTN network and a VoIP network as taught by Mussman et al. with the a call processing system as taught by Fuller et al. is to improve the security of the network by providing an access control mechanism for allowing or rejecting calls in the network.



Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception that the facility coupled to a plurality of telephone terminals specifically comprises one or more prison facilities. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the network that facilitates and screens combined digital VoIP and analog POTS calls as taught by Fuller et al. and Mussman et al. The method and apparatus for managing telephone activity in prison facilities can be implemented by using the network that screens unauthorized calls as taught by Fuller et al. and Mussman et al. in prison facilities as suggested by Gainsboro. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the network that facilitates and screens combined digital VoIP and analog POTS calls as taught by Fuller et al. and Mussman et al. is to improve security in a prison system by allowing or rejecting calls made through the prison telephony network.

**For claim 22,** Fuller et al. disclose a call processing system wherein the digital data links provide voice over Internet protocol data communication between the plurality of prison facilities and the call processing platform (see column 10 lines 24-31).

**For claim 24,** Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the fraudulent or unauthorized call activity comprises a three-way call. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column

3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU monitors fraudulent or unauthorized call activity such as three-way calling (see column 4 lines 34-41).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the management and security in telephone communications of prison facilities by providing information for access control.

**For claim 30**, Fuller et al. a call processing system wherein the call processing gateways provide interfacing between at least one analog telephone line interface and the digital data links (see column 5 lines 57-64).

**For claim 31**, Fuller et al. a call processing system wherein the call processing gateways comprise voice over Internet protocol gateways (see column 5 lines 4-56 and figure 1, which recite a processor-based system comprising computer 17, modem 22, and Call Forwarding Manager 24 for processing H.323 VoIP traffic between a plurality of telephone terminals 18 and digital DSL link 34).

**For claim 32**, Fuller et al. a call processing system wherein the call processing gateways provide at least one local area network interface for coupling a computer workstation to the call processing platform via the digital data links (see column 5 lines 41-47).

**For claim 34**, Fuller et al. disclose a method for providing facility call processing, in a centralized call processing system, the method comprising:

Communicating with a plurality of processor-based systems via digital data links, each processor-based system collect call signals for establishing calls from telephone terminals in a facility, at least one of the processor-based system located remotely from the centralized call processing platform (see column 10 lines 24-35 and figure 1, which recite a voice gateway 44 coupled to carrier network 12 to establish calls to called parties requested by IP telephones 18 at facility 16);

receiving a first voice signals collected by one of the plurality of processor-based systems via the digital data link; converting the first voice signals for transmission over a carrier network; receiving a second non-VoIP (Voice over Internet Protocol) second voice signal from the called party via the carrier network; converting the second non-VoIP voice signal to a second VoIP voice signal for transmission over the digital data link to the one of the plurality processor-based systems (see column 2 lines 7-15 and column 10 lines 24-35, which recite a voice gateway 44 that converts between VoIP H.323 signals received from IP telephones 18 and non-VoIP signals received from called parties in PTSN carrier network 12).

Fuller et al. disclose the subject matter of the claimed invention with the exception wherein the plurality of call processing gateways detect the fraudulent or unauthorized call activity and monitor the second non-VoIP voice signal for the fraudulent or unauthorized call

activity. However, Mussman et al. from the same or similar fields of endeavor disclose a method and apparatus for screening unauthorized calls (see column 1 lines 37-46). Unauthorized calls may be screened between in a PSTN switched network 1030 and a packet network 1040 (see column 2 lines 31-60 and figures 1-2). Specifically, non-VoIP calls from a PSTN network are screened by an inbound gateway 5020 and gatekeeper 5030 while VoIP calls to the H.323 network are screened by outbound gateway 5070 and gatekeeper 5060 (see figure 5). Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for screening unauthorized calls between a PSTN network and a VoIP network as taught by Mussman et al. with the combined analog and VoIP telephony call processing system as taught by Fuller et al. The method and apparatus for screening unauthorized calls can be implemented by using the gatekeepers that monitor calls between a PSTN network and a VoIP network as taught by Mussman et al. in the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. The motivation for using the method and apparatus for screening unauthorized calls between a PSTN network and a VoIP network as taught by Mussman et al. with the a call processing system as taught by Fuller et al. is to improve the security of the network by providing an access control mechanism for allowing or rejecting calls in the network.

Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception that the facility coupled to a plurality of telephone terminals specifically comprises one ore more prison facilities. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Thus, it would have been obvious to the person of ordinary skill in

the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the network that facilitates and screens combined digital VoIP and analog POTS calls as taught by Fuller et al. and Mussman et al. The method and apparatus for managing telephone activity in prison facilities can be implemented by using the network that screens unauthorized calls as taught by Fuller et al. and Mussman et al. in prison facilities as suggested by Gainsboro. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the network that facilitates and screens combined digital VoIP and analog POTS calls as taught by Fuller et al. and Mussman et al. is to improve security in a prison system by allowing or rejecting calls made through the prison telephony network.

**For claim 36**, Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the fraudulent or unauthorized call activity comprises a three-way call. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU monitors fraudulent or unauthorized call activity such as three-way calling (see column 4 lines 34-41).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by

Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the management and security in telephone communications of prison facilities by providing information for access control.

**For claim 38**, Fuller et al. disclose a call processing method wherein the method includes routing the call to the called party (see column 10 lines 24-31, which recite the voice gateway 44 that routes calls to the destination telephone). Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the call processing system further comprises validating an the call from the one of a plurality of telephone terminals, determining acceptance of the call by the called party, the call established responsive to the acceptance of the call by the called party; and creating call billing information associated with the call. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU monitors fraudulent or unauthorized call activity such as three-way calling (see column 4 lines 34-41). The TMU further validates a call by verifying the PIN of a caller (see column 1 lines 48-49 and column 6 lines 8-9), determines whether a call is accepted by a called party (see column 3 lines 39-52), and processes billing information associated with the call (see column 6 lines 9-20).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the management and security in telephone communications of prison facilities by providing information for access control.

**For claim 39**, Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the call processing system and method further performs speech recognition on the call. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU monitors fraudulent or unauthorized call activity using speech recognition (see column 5 lines 17-29), call recording (see column 4 lines 31-32), and billing processing (see column 6 lines 9-20). If unauthorized activity is detected, the call may be discontinued (see column 6 lines 36-40).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the management and security in telephone communications of prison facilities by providing information for access control.

**For claim 40**, Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the call processing system and method further records the call. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU monitors fraudulent or unauthorized call activity using speech recognition (see column 5 lines 17-29), call recording (see column 4 lines 31-32), and billing processing (see column 6 lines 9-20). If unauthorized activity is detected, the call may be discontinued (see column 6 lines 36-40).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities



as taught by Gainsboro with the a call processing system that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the management and security in telephone communications of prison facilities by providing information for access control.

**For claim 41**, Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the second processor-based system discontinues the calls responsive to detecting the fraudulent or unauthorized call activity in the calls. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU monitors fraudulent or unauthorized call activity using speech recognition (see column 5 lines 17-29), call recording (see column 4 lines 31-32), and billing processing (see column 6 lines 9-20). If unauthorized activity is detected, the call may be discontinued (see column 6 lines 36-40).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and

VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the management and security in telephone communications of prison facilities by providing information for access control.

**For claim 42**, Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the call processing system discontinues the calls responsive to detecting the fraudulent or unauthorized call activity in the calls. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU monitors fraudulent or unauthorized call activity using speech recognition (see column 5 lines 17-29), call recording (see column 4 lines 31-32), and billing processing (see column 6 lines 9-20). If unauthorized activity is detected, the call may be discontinued (see column 6 lines 36-40).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for

monitoring call activity can be implemented by using the Trunk Management Unit as taught by Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the management and security in telephone communications of prison facilities by providing information for access control.

**For claim 43,** Fuller et al. and Mussman et al. disclose all the subject matter of the claimed invention with the exception wherein the call processing system and method further comprises discontinuing the call responsive to detecting the fraudulent or unauthorized call activity. However, Gainsboro from the same or similar fields of endeavor disclose a method and apparatus for managing telephone activity in a prison facility (see column 3 lines 11-15). Inmate telephone units 1 are connected to outside telephone lines through Trunk Management Unit 2 (TMU) (see column 4 lines 5-10 and figure 1). The TMU monitors fraudulent or unauthorized call activity using speech recognition (see column 5 lines 17-29), call recording (see column 4 lines 31-32), and billing processing (see column 6 lines 9-20). If unauthorized activity is detected, the call may be discontinued (see column 6 lines 36-40).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the method and apparatus for managing telephone activity in prison facilities as taught by Gainsboro with the a call processing system that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The method and apparatus for monitoring call activity can be implemented by using the Trunk Management Unit as taught by

Gainsboro to process calls made using the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. The motivation for using the method and apparatus for managing telephone activity in prison facilities as suggested by Gainsboro with the call processing system as taught by Fuller et al. and Mussman et al. is to improve the management and security in telephone communications of prison facilities by providing information for access control.

10. Claims 44-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuller et al. (U.S. Patent 7,203,186) in view of Mussman et al. (U.S. Patent 7,075,922) and Gainsboro (U.S. Patent 5,655,013), and further in view of Arimilli et al. (U.S. Patent 5,682,386).

**For claims 44-46,** Fuller et al., Mussman et al., and Gainsboro disclose a network that facilitates and screens combined digital VoIP and analog POTS calls. However, Fuller et al., Mussman et al., and Gainsboro does not specifically disclose applying silence detection techniques to the second non-VoIP voice signals. Arimilli et al. from the same or similar fields of endeavor disclose a method and apparatus for processing voice communications in a data stream that uses a silence detection function (see column 11 lines 65-67 and column 12 lines 1-5). Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to use the silence detection function as taught by Arimilli et al. with the network that facilitates and screens combined digital VoIP and analog POTS calls as taught by Fuller et al., Mussman et al., and Gainsboro. The method and apparatus for silence detection activity can be implemented by configuring the network that facilitates combined analog and VoIP telephony as taught by Fuller et al. and Mussman et al. to use the silence detection function as taught by

Arimilli et al. The motivation for using the method and apparatus for using the silence detection function as suggested by Arimilli et al. with the network that facilitates and screens combined digital VoIP and analog POTS calls is to improve the efficiency of the network by eliminating the transmission of silent packets to conserve bandwidth.

### **Response to Arguments**

11. Claims 1, 21, and 34 were previously rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. It is noted with appreciation that the Applicants have amended the rejected claims to overcome to rejection. In response, the 35 U.S.C. 112, first paragraph rejection has been withdrawn.

12. It is noted with appreciation that the Applicants have carefully considered the previous Office Action and the cited prior art references. Applicant's arguments with respect to the prior art rejections of the pending claims have been considered but are moot in view of the new ground(s) of rejection. Claims 1-14, 16, 19, 21, 22, 24, 30-32, 34, 36, 38-43 are currently rejected under 35 U.S.C. 103(a) as being unpatentable over Fuller et al. (U.S. Patent 7,203,186) in view of Mussman et al. (U.S. Patent 7,075,922) and Gainsboro (U.S. Patent 5,655,013). Claims 44-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuller et al. (U.S. Patent 7,203,186) in view of Mussman et al. (U.S. Patent 7,075,922) and Gainsboro (U.S. Patent 5,655,013), and further in view of Arimilli et al. (U.S. Patent 5,682,386).

13. Although new grounds of rejection have been introduced, the Examiner's response to the Applicants' arguments regarding the newly added limitations is provided for the Applicants' consideration. On page 12 of the Applicants' remarks filed on December 10<sup>th</sup>, 2010, the Applicants argue, "in Mussman, the call screening is performed only at gatekeeper 2010." However, the Examiner respectfully disagrees with the Applicants' characterization of the prior art. Specifically, non-VoIP calls from a PSTN network are screened by an inbound gateway 5020 and gatekeeper 5030 while VoIP calls to the H.323 network are screened by outbound gateway 5070 and gatekeeper 5060 (see figure 5).

### **Conclusion**

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BEN H. LIU whose telephone number is (571)270-3118. The examiner can normally be reached on 9:00AM to 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571)272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

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like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ricky Ngo/  
Supervisory Patent Examiner, Art Unit  
2464

BL